

**Trade name:** Wirolyt (REF 52460, 54920)

Current version: 6.0.0, issued: 15.12.2020 Replaced version: 5.2.0, issued: 10.04.2019 Region: GB

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name

# Wirolyt (REF 52460, 54920)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

# Relevant identified uses of the substance or mixture

Manufacturing of dental prosthesis in a dental laboratory

### Uses advised against

No data available.

# 1.3 Details of the supplier of the safety data sheet

#### Address

BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG Wilhelm-Herbst-Str. 1

28359 Bremen +49/ 421

Telephone no. +49/ 421/ 2028 - 0 Fax no. +49/ 421/ 2028 - 115 e-mail msds@bego.com

#### Information provided by / telephone

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 - 130 (Chief Development Officer alloys)

#### **Advice on Safety Data Sheet**

msds@bego.com

#### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Eye Dam. 1; H318 Met. Corr. 1; H290 Skin Corr. 1; H314 STOT RE 2: H3730

#### Classification information

Product is classified as "Corrosive" based on the extreme pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

#### Hazard pictograms









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GHS05 GHS07 GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

ethanediol sulphuric acid

Hazard statement(s)

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H373o May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statement(s)

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to a facility in accordance with local and national

regulations.

#### 2.3 Other hazards

PBT assessment No data available. vPvB assessment No data available.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

#### **Hazardous ingredients**

No	Substance name		Additi	onal information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration	%
	REACH no				
1	ethanediol				
	107-21-1	Acute Tox. 4; H302	>	90.00	wt%
	203-473-3	STOT RE 2; H373o			
	603-027-00-1				
	01-2119456816-28				
2	sulphuric acid				
	7664-93-9	Skin Corr. 1A; H314	>=	5.00 - < 10.0	0 wt%
	231-639-5	Eye Dam. 1; H318			
	016-020-00-8				
	01-2119458838-20				

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2		Eye Irrit. 2; H319: C >= 5%	-	-
		Skin Irrit. 2; H315: C >= 5%		
		Eye Dam. 1; H318: C >= 15%		
		Skin Corr. 1A; H314: C >= 15%		

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".



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N	Route, target organ, concrete effect
1	H373
	oral; kidneys; -

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area.

#### After skin contact

When in contact with the skin, clean with soap and water. Seek medical attention.

#### After eve contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

#### After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Let plenty of water be drunk in small gulps. Call a doctor immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

No data available.

## 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

# Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Water spray jet; Foam

#### Unsuitable extinguishing media

High power water jet

## 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Sulphur oxides (SxOy); Carbon monoxide and carbon dioxide

#### 5.3 Advice for firefighters

Adapt extinguisher and fire-fighting measures to fire in the environment. Use self-contained breathing apparatus. Wear protective clothing.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in sections 7 and 8.

# For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust). When collected, handle material as described under the section heading "Disposal considerations".

#### 6.4 Reference to other sections

No data available.



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# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

#### General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale gases/vapours/aerosols. Have emergency shower available. Provide eye wash fountain in work area.

#### Advice on protection against fire and explosion

No special measures necessary.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels

Keep only in the original container. Containers which are opened must be carefully closed and kept upright to prevent leakage.

#### Incompatible products

Do not store together with: explosive substances; Peroxides; oxidizing agents

## 7.3 Specific end use(s)

No data available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

# Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	ethanediol	107-21-1		203-473-3	
	2000/39/EC				
	Ethylene glycol				
	WEL short-term (15 min reference period)	104	mg/m³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m³	20	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) /	EH40			
	Ethane-1,2-diol vapour				
	WEL short-term (15 min reference period)	104	mg/m³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m³	20	ppm
	Comments	Sk			
	List of approved workplace exposure limits (WELs) /	EH40			
	Ethane-1,2-diol particulate				
	WEL long-term (8-hr TWA reference period)	10	mg/m³		
	Comments	Sk			
2	sulphuric acid	7664-93-9		231-639-5	
	2009/161/EU				
	sulphuric acid (mist)				
	Mist				
	WEL long-term (8-hr TWA reference period)	0.05	mg/m³		
	List of approved workplace exposure limits (WELs) /	EH40			
,	Sulphuric acid mist				
	WEL long-term (8-hr TWA reference period)	0.05	mg/m³		
	Comments	The mist is o	lefined as the	thoracic fractio	n



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## **DNEL, DMEL and PNEC values**

# **DNEL** values (worker)

	DIVEL Values (WOIKEI)					
No	Substance name			CAS / EC	no	
	Route of exposure	Exposure time	Effect	Value		
1	ethanediol	•		107-21-1		
				203-473-	3	
	dermal	Long term (chronic)	systemic	106	mg/kg/day	
	inhalative	Long term (chronic)	local	35	mg/m³	
2	sulphuric acid			7664-93-	9	
				231-639-	5	
	inhalative	Long term (chronic)	local	0.05	mg/m³	
	inhalative	Short term (acut)	local	0.1	mg/m³	

#### **DNEL value (consumer)**

No	Substance name			CAS / EC no		
	Route of exposure	Exposure time	Effect	Value		
1	ethanediol			107-21-1		
				203-473-3		
	dermal	Long term (chronic)	systemic	53	mg/kg/day	
	inhalative	Long term (chronic)	local	7	mg/m³	

#### **PNEC values**

No	Substance name		CAS / EC no	)
	ecological compartment	Туре	Value	
1	ethanediol		107-21-1	
		Te i i	203-473-3	//
	water	fresh water	10	mg/L
	water	marine water	1	mg/L
	water	Aqua intermittent	10	mg/L
	water	fresh water sediment	37	mg/kg dry weight
	water	marine water sediment	3.7	mg/kg dry weight
	soil	-	1.53	mg/kg dry weight
	sewage treatment plant	-	199.5	mg/L
2	sulphuric acid		7664-93-9	
			231-639-5	
	water	fresh water	0.0025	mg/L
	water	marine water	0.00025	mg/L
	water	fresh water sediment	0.002	mg/kg
	water	marine water sediment	0.002	mg/kg
	sewage treatment plant	-	8.8	mg/L

## 8.2 Exposure controls

## Appropriate engineering controls

No data available.

## Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

## Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions



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(e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Replace immediately protective gloves if worn or damaged. Make sure that operations are designed so that it is not necessary to wear continuously protective gloves.

#### Other

Normal chemical work clothing.

#### **Environmental exposure controls**

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Constal	
liquid colourless	
Odour	
slightly sweetish	
Odour threshold	
No data available	
pH value < 1	
Reference temperature 20	
	00 %
Boiling point / boiling range No data available	
Melting point/freezing point  No data available	
Decomposition temperature	
No data available	
Flash point	
Value 10	01 °C
Auto-ignition temperature  No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability No data available	
Lower explosion limit  No data available	
Upper explosion limit	
No data available	
Vapour pressure	
No data available	
Relative vapour density  No data available	
Evaporation rate	
No data available	



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Relative density							
No data available	No data available						
Density							
Value	1.175 g/cm³						
Solubility in water							
Reference temperature	20 °C						
Comments	Completely miscible						

Solubility	
No data available	

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name	CAS no.		EC no.		
1	ethanediol	107-21-1		203-473-3		
log F	Pow		-1.36			
Refe	erence temperature		25	°C		
Soul	rce	ECHA				

Viscosity				
Value		19.035	mPa*s	
Туре	dynamic			
Value		16.2	mm²/s	
Reference temperature		20	°C	
Туре	kinematic			

#### 9.2 Other information

Other information
No data available.

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

## 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

# 10.3 Possibility of hazardous reactions

None, when used as directed.

## 10.4 Conditions to avoid

In case of addition of water warming up. If diluting put acid in water, not reverse. If diluting or dissolving in water always appears strong heating up. Reactions with alkalies and metals.

# 10.5 Incompatible materials

Metals; Water

#### 10.6 Hazardous decomposition products

In case of fire the following can be released: Sulphurous oxides (SOx)

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acu	Acute oral toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	Wirolyt (REF 52460, 54920)				
ATE	(Mixture)	554.94			
Meth	nod	Calculation method according Regulation (EC) No 1272/2008,			
		(CLP), annex I, part 3, section 3.1.3.6.			

# Acute oral toxicity



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No	Substance name		CAS no.		EC no.
1	sulphuric acid		7664-93-9		231-639-5
LD5	0			2140	mg/kg bodyweight
Spe	cies	rat			
Meth	nod	OECD 401			
Soul	rce	ECHA			

Acute	e dermal toxicity
No da	uta available

# Acute inhalational toxicity No data available

# Skin corrosion/irritation No data available

# Serious eye damage/irritation No data available

Res	Respiratory or skin sensitisation				
No	Substance name	CAS no.	EC no.		
1	ethanediol	107-21-1	203-473-3		
Rou	te of exposure	Skin			
Spe	cies	guinea pig			
Soul	rce	ECHA			
Eval	uation	non-sensitizing			

Ger	m cell mutagenicity				
No	Substance name	CAS no.	EC no.		
1	ethanediol	107-21-1	203-473-3		
Type of examination Bacterial Reverse Mutation Test					
Spe	cies	Salmonella typhimurium: TA 1535, Ta	A 1537, TA 98, TA 100;		
•		Escherichia coli WP2 uvrA			
Method		OECD 471	OECD 471		
Source ECHA					
Eval	luation/classification	Based on available data, the classific	cation criteria are not met.		

Reproduction toxicity			
No Substance name	CAS no.	EC no.	
1 ethanediol	107-21-1	203-473-3	
Source	ECHA		
Evaluation/classification	Based on available data, the	classification criteria are not m	net.
2 sulphuric acid	7664-93-9	231-639-5	
Route of exposure	inhalational		
NOAEC		19.3 mg/m³	
Duration of exposure		18 day(s)	
Species	rabbit	- · · ·	
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the	classification criteria are not m	net.

Card	Carcinogenicity				
No	Substance name	CAS no.	EC no.		
1	ethanediol	107-21-1	203-473-3		
Soul	ce	ECHA			
Eval	uation/classification	Based on available data, the classificati	on criteria are not met.		

STOT - single exposure	
No data available	

STO	STOT - repeated exposure				
No	Substance name	CAS no.	EC no.		
1	ethanediol	107-21-1	203-473-3		
Route of exposure		oral			



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NOAEL		150	mg/kg bw/d
Duration of exposure		12	months
Species	rat		
Target organ	kidneys		
Method	OECD 452		
Source	ECHA		
Evaluation/classification	Based on available data, the	classification	r criteria are met.
2 sulphuric acid	7664-93-9		231-639-5
Route of exposure	inhalational		
Route of exposure LOAEC	inhalational	0.3	mg/m³
	inhalational	0.3 28	mg/m³ day(s)
LOAEC	inhalational		_
LOAEC Duration of exposure			_
LOAEC Duration of exposure Species	rat		_

Aspiration hazard

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosive effect of product in contact with skin, eyes and mucous membranes. Harmful if swallowed.

# SECTION 12: Ecological information

# 12.1 Toxicity

Toxi	city to fish (acute)					
No	Substance name	CAS no.			EC no.	
1	ethanediol	107-21-1			203-473-3	
LC5	0	>		72860	mg/l	
Dura	ation of exposure			96	h	
Species		Pimephales promelas				
Soul	rce	ECHA				
2	sulphuric acid	7664-93-9	9		231-639-5	
LC5	0	16	-	28	mg/l	
Dura	ation of exposure			96	h	
Spe	cies	Lepomis macrochirus				
Soul	rce	ECHA				

Toxi	Toxicity to fish (chronic)					
No	Substance name	CAS no.		EC no.		
1	sulphuric acid	7664-93-9		231-639-5		
NOE	C		0.025	mg/l		
Dura	ation of exposure		65	day(s)		
Species		Jordanella floridae				
Sou	rce	ECHA				

Toxicity to Daphnia (acute)				
No Substance name	CAS no.		EC no.	
1 ethanediol	107-21-1		203-473-3	
EC50	>	100	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			
2 sulphuric acid	7664-93-9		231-639-5	
EC50	>	100	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			

# Toxicity to Daphnia (chronic)



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No	Substance name		CAS no.		EC no.
1	sulphuric acid		7664-93-9		231-639-5
NOE	EC			0.15	mg/l
Dura	ation of exposure			35	day(s)
Spe	cies	T. dissimilis			
Sou	rce	ECHA			

Toxi	Toxicity to algae (acute)					
No	Substance name	CAS	S no.	EC no.		
1	sulphuric acid	766	4-93-9	231-639-5		
EC50		>	100	mg/l		
Duration of exposure			72	h		
Species		Desmodesmus su	ubspicatus			
Method		OECD 201				
Source		ECHA				

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

Biod	Biodegradability					
No	Substance name	CAS no.		EC no.		
1	ethanediol	107-21-1		203-473-3		
Туре		DOC decrease				
Valu	е	90	- 100	%		
Dura	ation		10	day(s)		
Method		OECD 301 A				
Source		ECHA				
Eval	uation	readily biodegradable				

12.3 Bioaccumulative potential

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name	CAS no.		EC no.		
1	ethanediol	107-21-1		203-473-3		
log Pow			-1.36			
Reference temperature			25	°C		
Source		ECHA				

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
	PBT assessment	No data available.	
	vPvB assessment	No data available.	

# 12.6 Other adverse effects

No data available.

#### 12.7 Other information

Other information	
Do not discharge product unmonitored into the environment.	

# **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

# **Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.



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#### **Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

# **SECTION 14: Transport information**

## 14.1 Transport ADR/RID/ADN

Class 8
Classification code C1
Packing group II
Hazard identification no. 80
UN number UN2796

Proper shipping name SULPHURIC ACID

Tunnel restriction code E

Label 8

## 14.2 Transport IMDG

Class 8 Packing group II

UN number UN2796

Proper shipping name SULPHURIC ACID

EmS F-A, S-B Label 8

# 14.3 Transport ICAO-TI / IATA

Class 8 Packing group II

UN number UN2796
Proper shipping name Sulphuric acid

Label 8

### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

# REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

# Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex No 3



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XVII.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

#### 15.2 Chemical safety assessment

No data available.

## **SECTION 16: Other information**

# Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

# Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H318 Causes serious eye damage.

# Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

В

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

#### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

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